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(54) Method and apparatus for depilation using pulsed electromagnetic radiation

(57) A method and apparatus for removing hair is disclosed. The method includes the step of producing at least one pulse of incoherent electromagnetic energy. The incoherent electromagnetic energy is then coupled to an area of surface of the tissue that includes more than one hair follicle. The method may alternatively include the step of applying a gel (103) on a surface of the tissue to cool the tissue. The energy heats the hairs and

hair follicles, without heating the tissue. The apparatus includes a source (301) of pulsed incoherent electromagnetic energy. The source is located within a housing (302), and a coupler (310) directs the incoherent electromagnetic energy to the surface of the tissue. In an alternative arrangement a gel disposed on the surface of the tissue such that the gel cools the tissue but is not adjacent, and does not cool, the hair follicle.



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PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention E.P. 96 30 1922
shall be considered, for the purposes of subsequent
proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	EP 0 565 331 A (ESC MEDICAL) 13 October 1993 * abstract * ---	14.36	A61N5/06
D,A	US 3 693 623 A (HARTE) 26 September 1972 * abstract * ---	14.36	
D,A	US 3 538 919 A (MEYER) 10 November 1970 * abstract * ---	14.36	
D,A	US 4 388 924 A (WEISSMANN) 21 June 1983 * abstract * -----	14.36	
TECHNICAL FIELDS SEARCHED (Int.Cl.6)			
A61N			
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for the following claims:</p> <p>Claims searched completely: 14-23, 36-42</p> <p>Claims searched incompletely:</p> <p>Claims not searched: 1-13, 24-35</p> <p>Reason for the limitation of the search: Art. 52(4) EPC</p>			
Place of search THE HAGUE	Date of completion of the search 27 April 1998	Examiner Taccoen, J-F	
<p>PLACE OF SEARCH</p> <p>THE HAGUE</p> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X particularly relevant if taken alone Y particularly relevant if combined with another document of the same category A technological background D non-written disclosure P intermediate document</p> <p>T theory or principle underlying the invention E earlier patent document, but published on, or after the filing date D document cited in the application L document cited for other reasons & member of the same patent family corresponding document</p>			

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